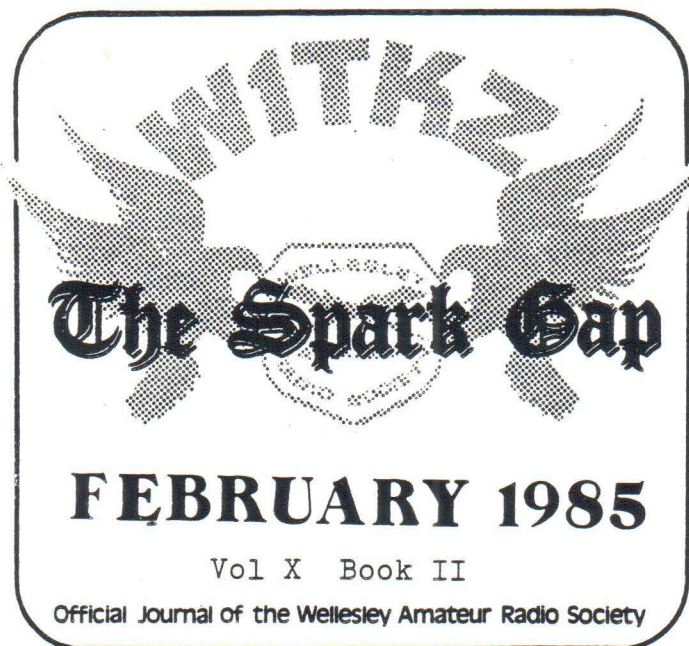




REPEATER

by Tom Kinahan, N1CPE

Well, it has finally arrived, the new Wellesley A.R.S. repeater is on the air. We want to take this space to deeply thank all those who contributed to make it possible:

Wing Choy	KALBHZ
C.J. McDonald	WB1BUM
Tom Kinahan	N1CPE
Ken McNair	N1DEZ
Dave McLellan	N1DFP
Art Thompson	KALENP
Roger Smith	W1EOA
Thomas Burton	KX1H
Mort Cohan	KALIU
George Joubert	KALJIP
Harry McDade	W1LMU
Jim Hatherley	WALTBY
Nels Anderson	K1UR
Scott Nacey	W1YOJ
Dave Kent	N2AWG
Anonymous	

This is your repeater, please get

on, use it and suggest new things to do with it. There is still some debt associated with the repeater purchase. Note that in the secretary's report, the debt is paid off, but out of the general treasury of the club. We originally had a goal of \$1000 from the Club treasury and the rest (\$1236) from donations. We have not yet managed to raise all of the funds from donations. That means, we're still looking for more. Thanks, everybody, for your support in this project, get on and use it!

ANNOUNCEMENT

The repeater arrived on Friday, December 21 and was installed Wednesday, December 26. Thanks to Gene Balinski, W1UXA, of Nashua, NH for being our shipping address (and thus saving us over \$100 in sales tax). Members who were heard during the first day of operation include: W1TTY, W1HRV, K1JWE, N1DDI, N1CPE, K1UR, WB1BUM, WALTBY, W1GCI, K1BA, K1LDV, N1ADY, W1YOJ.

Also, the January issue of QST brought word of our finish in the September 1984 VHF QSO Party. With some of the best conditions ever reported from all over the country we finished in fourth place in the multi-operator category, behind W2SZ/1, W1VD and WB4NMA. Actually we didn't miss third by all that much either so it was another good finish from atop Mt. Equinox.

Although we had to cancel our planned message fair in December when we could not find a place to hold it, we will be holding one in February during Valentines Day week at Shoppers World. As usual, we will need a lot of help to pull this off, so I hope many of you will sign up for a few hours. Complete details later in this issue.

MEETINGS THIS MONTH:

February 7, 1985, at 7:30 p.m.
February 21, 1985, at 7:30 p.m.
211 Washington St., Wellesley

Elections

It is time to start thinking about who you would like to see running the club next year. Nomination of officers is held at the second meeting in March each year (March 15). Election Committee Chairman, C.J. McDonald, WB1BUM, will take nominations by mail any time up to that meeting as well as during the meeting. If you would like to nominate anyone, including yourself, mail your nomination to C.J. McDonald, 48 Hale Street, Newton, Mass. 02164.

Auctions / Flea Markets

March 30: Our own Wellesley A.R.S. auction, held at the Wellesley First Congregational Church, 207 Washington Street, Wellesley. Check-in begins at 10:00 a.m., and the auction at 11:00. Food and drink available. Talk-in on 147.63/03.
April 14: Framingham ARA flea market.

ANNOUNCEMENT

March 16: 19/79 ARA sponsored all level exams at Ryan Hall (Ireson Building), 493 Western Avenue (Route 107), Lynn. Send form 610 with \$4 check made out to ARRL/VEC to Ralph Gandolfo, 18 Murdock Drive, Peabody, MA 01960 to arrive by February 13 for General, Advanced, Extra. For Tech, send form and check to Bob Kalustian, 36 Columbia Road, Arlington, MA 02174.
April 14: Framingham ARA sponsored all level exams at their flea market, 214 Concord Street, Framingham. Send form 610 with \$4 check made out to ARRL/VEC to FARA, Box 3005, Framingham, MA 01701.

Hamnews

The cost of getting a ham ticket or upgrading one may be going up. On December 17, the FCC announced that the maximum allowable reimbursement for

out-of-pocket costs in administering Amateur examinations will be \$4.16 effective January 1. This figure was based on the 4% increase reported in the Labor Department's Consumer Price Index from September 1983 to September 1984.

Each VEC (and his volunteer examiner) may collect no more than \$4.16 in order to defray their actual costs incurred in preparing, processing and administering any examination, except for the Novice Class. A VEC is not obligated to collect these fees. If he wishes, he may provide his services at a lower price or without charge.

Westlink Report, December 28, 1984

Packet radio is coming on strong throughout western Europe, with at least 25 stations already on the air in Zurich, Switzerland and more than 50 in the Federal Republic of Germany. In 1984, the Bavarian Amateur Packet Radio Group (BAPR) was formed, and DJ0QN was instrumental in arranging the importation of 25 Tucson amateur packet radio boards. Another 25 are on order for delivery in January.

Westlink Report, December 28, 1984

OFFICERS

PRESIDENT:

Nels Anderson, K1UR, 872-5259

VICE PRESIDENT:

David Curry, K1TK, 237-2450

RECORDING SECRETARY:

Tom Kinahan, N1CPE, 653-0641

CORRESPONDING SECRETARY:

Allan Bacon, K1BA, 749-4382

TREASURER:

C.J. McDonald, WB1BUM, 332-6091

FUND RAISING:

Kevin Kelly, W4YHV, 242-0341

OPERATING ACTIVITIES:

Volunteer needed!

EDUCATION CHAIRMAN:

Volunteer needed!

STATION MANAGER:

Bob Drapeau, K1TK, 883-1132

REPEATER COMMITTEE:

Tom Kinahan, N1CPE, 653-0641

The Spark Gap

Official Journal of the Wellesley Amateur Radio Society



EDITOR:

NELS ANDERSON, KIUR
92 BISHOP DRIVE
FRAMINGHAM, MASS. 01701
872-5259

THE "SPARK GAP" IS A MONTHLY PUBLICATION OF THE WELLESLEY AMATEUR RADIO SOCIETY. ITS PRIMARY PURPOSE IS TO KEEP ITS MEMBERS ABREAST OF CURRENT HAPPENINGS, FCC RULES AND REGULATIONS CHANGES, AND TO LIST EQUIPMENT OFFERED FOR SALE OR TRADE BY MEMBERS. MEMBERS ARE ENCOURAGED TO CONTRIBUTE TO THE "SPARK GAP" AND MAY SEND THEIR ARTICLES TO THE EDITOR. ITEMS PRINTED IN THE "SPARK GAP" MAY BE REPRINTED BY OTHER AMATEUR RADIO PUBLICATIONS PROVIDED THE AUTHOR AND THE "SPARK GAP" ARE GIVEN CREDIT.

THE WELLESLEY AMATEUR RADIO SOCIETY IS A NON-PROFIT ORGANIZATION DEDICATED TO THE PROMOTION OF AMATEUR RADIO THROUGH INSTRUCTION, FELLOWSHIP, DEMONSTRATION, AND ENCOURAGEMENT OF PARTICIPATION. ANNUAL MEMBERSHIP IN THE SOCIETY IS \$8.00. THE CLUB YEAR RUNS SEPTEMBER 1 TO AUGUST 31. AMATEUR NOVICE AND GENERAL CLASSES ARE CONDUCTED REGULARLY AT NO COST. TO ENROLL IN A CLASS, OR GAIN INFORMATION ABOUT THE SOCIETY IN GENERAL, WRITE:

THE WELLESLEY AMATEUR RADIO SOCIETY
211 WASHINGTON STREET
WELLESLEY HILLS, MASS. 02181



MINUTES

Meeting of January 3, 1985:

Meeting opened at 7:50 p.m. by KIUR.

Secretary's report accepted.

Treasurer's report accepted.

There was a report from the Repeater Committee regarding the new W.A.R.S. repeater.

A motion to repay the outstanding repeater debt of \$536 was made with thanks. It was seconded, accepted.

A Novice Class was announced for Mondays starting the first week of March.

Meeting closed at 9:06 p.m.

After the meeting we enjoyed a video tape of the Mt. Equinox Hill Climb that was borrowed by Bill

Hanlon, NIADY. (Thanks to Bob Girvin for providing the tape. Bob owns and drives the 1957 Allard seen in the tape and at Mt. Equinox.)

Meeting of January 17, 1985:

Meeting opened at 7:55 p.m. by KIUR.

Secretary's report accepted.

Treasurer's report accepted (3 for 2 against). The Secretary again notes that there were some members in a dissenting mood.

Message Fair announced at Shoppers World, February 9-17. Please sign up to help.

Repeater report. Autodial telephone numbers will be programmed shortly and will be published in the Spark Gap. This will allow members to dial local police and fire officials directly through the repeater.

Novice Class starting March 4.

Auction, March 30.

Mike Karp, KALQK, needs info on neutralizing new finals in his TS820.

Paul Monroe, KALDV, requests that any Amateur interested in helping with a railway expedition contact him.

Jim Hatherly, WALTBY, requested a vote on the 40m SSB expansion below 7.1 MHz question as explained in January QST. Vote was: 2 favor the 40m phone expansion below 7.1 MHz, 9 not in favor. Jim also asked everyone to mail in the card from QST so the ARRL will know your opinion.

Adjourned at 8:45 pm.

Hamnews

National coordination may come a step closer to happening if Westlink Report and Westlink Radio Network, Inc. have their way. The two organizations are willing to co-sponsor a "National Repeater Coordinators Meeting" at the 1985 Dayton Hamvention if they can get cooperation from area repeater councils in surrounding states, and if those councils with viable operations are willing to send a representative to such a gathering.

Westlink Report, December 28, 1984

MESSAGE FAIR

by Nels Anderson, K1UR

We may have gotten cancelled in December, but we are now go for our annual message fair/Amateur Radio demonstration in February. Bob Drapeau, KTLK, found us a site at Shoppers World on Route 9 in Framingham for the week around Valentine's Day and with the help of Tom Kinahan, N1CPE, they have us all set to go.

This event is perhaps our most important of the year as it is our best chance to promote ourselves and Amateur Radio in general. Most of our new members and Novice Class students come from these demonstrations. Because this is our one chance to get ourselves in front of the general public it is vital to our hobby's continued existence that we put on a good show.

If promoting our hobby is not enough reason to help out, then do it for yourself. We will have many modes of Amateur Radio operation on display, including HF, VHF, packet radio, slow-scan TV (SSTV) and radio-teletype (RTTY). Wouldn't you like to try out one of these modes? Of course you would!

It was very discouraging to have only two volunteers out of perhaps twenty people in attendance at the last meeting. The message fair will run from Saturday, February 9 through Sunday, February 17. I can't believe there is anyone who doesn't have a few hours of spare time during that period. We're not asking any of you for a big sacrifice, just to come down and operate a radio or two for a few hours. Certainly you can do that or you wouldn't be in this hobby, right?

The hours will be weekends from about 9:30 a.m. to 9:30 p.m. and week nights from about 6:00 p.m. to 9:30 p.m. We can use people for any length of time on any day. If you're not sure of your schedule, just stop

by, we'll be in the little building in the courtyard of the mall, separate from the other buildings. It's heated and has good electric service so don't worry about your comfort. It would be a real help for if those of you who can plan ahead to let us know when you will be coming. Please contact Tom Kinahan, N1CPE, at 653-0641 or Nels Anderson, K1UR, at 872-5259. Let's see a good turnout!

Hamnews

On January 3, 1985, Senator Barry Goldwater, K7UGA, introduced two resolutions. One of them (Senate Resolution 36), if adopted, will declare the sense of the U.S. Senate that the FCC should affirm that state and local regulations must not unreasonably restrict communications from Amateur Radio stations. The other resolution pertains to the rights of citizens to erect and maintain television receive only (TVRO) satellite dishes. The Amateur Radio resolution will send a clear message to the FCC that favorable action on PRB-1 (the League's request for federal preemption of restrictive local antenna ordinances) would meet with the approval of the U.S. Senate. Your support, and the support of your Senator, is needed to ensure it is adopted.

ARRL Letter, January 17, 1985

The UK Sovereign Base Areas on Cyprus (Akrotiri and Dhekelia) have been declared a separate country from the rest of Cyprus for DXCC purposes. You may soon submit for DXCC credit cards with the ZC4 prefix dated after August 16, 1960 IF the cards also indicate the station was in a Sovereign Base Area. The reason for this is that during the early 60's ZC4 calls were issued for all of Cyprus and not just the base areas. Please note that cards should not be submitted for credit until June 1.

ARRL Letter, January 17, 1985

REPEATER

by Tom Kinahan, N1CPE

The new Wellesley repeater is presently completely housed in the Newton Wellesley Hospital, having been installed on Wednesday December 26, 1984. It has electrical service on the same system as the most critical medical instruments in the hospital, and power failures, when they occur to the rest of the world, will not happen to our repeater.

The features of the new Micro Control Specialties repeater are as follows:

Telephone or radio remote control. At this time, full control is allowed via both routes. Users are asked not to play tones randomly into the repeater, they may command a function that they really don't want.

Hysteresis type squelch circuit. This allows the repeater receiver to follow weak signals into the noise.

Anti kerchunk circuit.

Programmable squelch tail messages up to 22 characters.

Control operator programmable ID.

200 programmable autodial telephone numbers each with a maximum of 11 digits.

Autopatch/Reverse autopatch.

Long distance autopatch. Has no timeout limit on the autopatch. Used primarily in nationwide repeater networks.

All parameters are saved into non-volatile memory. If for some reason the repeater lost power or was unplugged, the programmable features would stay programmed forever. They can be changed only by commanding the parameter differently.

Among the remotely controllable features of this repeater are:

Touch Tone test.

Timer reset.

Autopatch.

Redial.

Reverse Autopatch.

Clear - used to clear the auto-

patch.

Program tail message.

Select tail message - between default 'Beep' and a programmable message (blank on ours).

Inhibit autopatch.

Inhibit reverse patch.

Select timeout timer setting - 3 minutes on ours.

Transmit inhibit. Shuts off transmitter.

Program autodial telephone numbers.

Function control. This repeater has 14 remotely controlled functions. They come out to the rear panel of the repeater and can be used for just about any home brew feature you can come up with. If there's anybody that would volunteer to design some nice circuits to control things up in the hospital, let us know. Anyone want to design an OSCAR 10 system that can be commanded over the repeater and all can use?

As you can see, the above list doesn't have the codes to do all that stuff. Can you imagine letting the world know how to shut off the Wellesley repeater? Well, there are a few things that the world can know without too much problem.

The Touch Tone test can determine that your tones are readable to the repeater. Try the following:

Key up.

Hit 1 2 3. Unkey your transmitter and the repeater will say Dah Dah Dah - Dah Dit Dah or 'OK' if it received you right.

Then, 4 5 6. Unkey, and listen for the OK.

Then, 7 8 9. Unkey, and listen...

And now the tricky part, the bottom row must go right to left, so hit: # 0 *. You again hear the OK if your touch tones work.

If at any time you get the morse code for 'R R R' it means you have commanded the repeater to do something, if you don't know what you did, who knows what it really is doing.

If you hear the morse code for 'CLR' then there is no problem, you have just cleared the patch, and if

you weren't using it, nothing is gained or lost.

If you hear a beep on the squelch tail and it signs 'PF' then the Hospital has had a power failure recently and is under emergency power or has recently been on emergency power.

The Newton Wellesley Hospital has, on occasion, needed assistance in various emergencies. In order to signal us in the future they will do the following:

Make phone calls to various members. If that doesn't work, they:

Attempt a reverse patch on the repeater. You can tell this is happening, the repeater will send a series of T's in code. This sounds like a series of beeps on the transmitter. If a control operator is listening, he will enable the reverse patch and become informed of the emergency actions requested.

As a last ditch attempt at alerting radio operators, they will add the tail message 'NWH' on the squelch tail. Anybody hearing this is asked to contact a control operator, or a club officer and as a last option they are asked to call the Newton Wellesley Hospital on the telephone, and ascertain the specifics of the emergency and what they need.

Please remember that we get space and power at the Newton Wellesley Hospital under our titles as Civil Defense Radio Operators.

At this time autopatch is not available. There is a proposal that we contact the Hospital regarding outgoing emergency telephone calls only. This might take the form of using the autodial feature to call up area police and fire officials. There is little chance that we would be able to get outgoing service that would allow non-emergency calls to be made without a fee. At this time there is no outgoing service at all.

At some time in the future, we will print another paper on some of the more specific uses of our repeater. If anyone has any ideas about additional features of the repeater,

please let a club officer or the repeater committee know and we'll see what can be done. Remember, this is your repeater, let your ideas be known about how you want to see it run.

The designated control operators are as follows: W1TTY, K1TK, N2AWG, K1UR, W1YOJ, W1BUM, N1CPE.

FROM THE MAILBAG



Dear EMASS clubs,

Several months ago, K1CE and I decided to go ahead with our dream of starting a fairground-style hamfest right here in the Boston area. We really missed the NoBARC event out in the Berkshires. We came up with the idea of a hamfest that combined the best features of NoBARC (country fairground setting, overnight camping), Deerfield (large flea market), and the mainstream hamfests and conventions (commercial exhibitors, forums, fox hunts, etc.). Adding a few ideas of our own, in the alternative activity area for instance, and locating the hamfest in a large country fairground that's only 8 miles from Route 128, really gives this event a lot of potential.

As everyone probably knows, putting on such a hamfest is a massive task. Several groups in EMass have begun to plan one, only to give up. We do not intend to give up. We already have a core group of committee members who have accepted important responsibilities in planning and running the hamfest. But we want to go a bit further, and invite all EMASS clubs to join forces with us.

We believe that participation of area clubs will benefit both the club and the hamfest. For example, W1HXF and K1BBN from MMRA told me how their booth at Boxboro was able to sign up 20 new MMRA members, while providing a radio clinic for convention goers.

One ambitious idea that we have is to put on an "Introduction to Amateur

Radio" program at the hamfest. Preceded by suitable publicity, this could give a lot of people in EMass the ham radio bug. Here's one important area where the participation of clubs is necessary. After the hamfest, licensing classes would have to be available to follow up our "Introduction" program.

Please discuss hamfest participation at your club. We think that hams around this area should be able to attend a great hamfest every year without having to drive to Dayton, Ohio. But it won't happen by itself. Besides planning the "new ham drive" described above, we still need help with the following: tickets (including advanced sales), copying contests, and alternative activities, and a few other areas. There is also the possibility of a club raising funds for itself by running a food concession at the hamfest (the Waltham club raises money that way at its annual auction). We would rather keep it in the fraternity than bring in a general concessioneer if there is any such interest.

One last word, regarding the name of the hamfest. Rick Beebe, K1PAD, has pointed out that although he personally has volunteered to help with the hamfest, the name "Heavy Hitters" Hamfest may be too closely linked with the Waltham ARA, discouraging other clubs from getting involved. To us, Heavy Hitters is just a fun name, usually associated with social events, although we do plan on giving some of the proceeds to support the open Waltham repeaters. We figured that since we were taking the initiative, we deserved to have the Heavy Hitters name on the hamfest. But if there are clubs that would participate only if a more "vanilla" name were used (as K1PAD put it), we will consider changing it. Actually, it hardly makes a difference. People will refer to it as "Topsfield", just as they refer to the N.E. Division ARRL convention and the Hosstraders Swapfest as "Boxboro" and "Deerfield".

See you at Topsfield.

73, Elliot Mayer, W1MJ
Hamfest Committee

Hamnews

Michigan has become the first mid-western state to adopt the Pacific Northwest 20 kHz 2 meter band plan for the 146-148 MHz repeater subband. At a meeting held in Lansing on Sunday, December 9, the Michigan Area Repeater Council voted overwhelmingly to abandon both upright and inverted 15 kHz tertiary allocations in favor of a uniform 20 kHz inter-system spacing plan across both of the 2 meter repeater subbands. The Michigan organization plans to have 20 kHz spacing put fully into effect by May of 1986. Determining which repeaters must move to what channels is now being researched; the decisions will be announced no later than June, 1985.

Some repeater coordinators in neighboring areas appear to be unhappy with Michigan's decision because of the "ripple effect" it may have there. The move to 20 kHz will affect FM relay operations in Ohio, Illinois, Indiana and Wisconsin. Because of the proximity of radio activity in the bordering states, the coordinators (and councils) will be forced to re-examine their 15 kHz allocation plans; 15 and 20 kHz spacing cannot co-exist in densely populated areas.

If Ohio, for example, decides to follow suit in switching to 20 kHz, the previously mentioned ripple effect would put pressure on both Indiana and Pennsylvania to do likewise. Any move by Pennsylvania would, of course, impact very heavily on the highly congested Washington-New York "RF corridor" which has operated for more than a decade under the 15 kHz non-inverted plan. A thousand miles away, Texas is also studying the feasibility of going to 20 kHz spacing. That state's frequency coordinators are due to vote on acceptance or rejection of the plan in mid February. Tnx K7CR.

Westlink Report, December 28, 1984

WELLESLEY AMATEUR RADIO SOCIETY MEMBERS (1/24/85):

ARNIE ADELMAN, 11 WALNUT ST., BERLIN, MA 01503	A W1GCI 838-2038
MIKE ADLERSTEIN, 24 BOBOLINK ROAD, WELLESLEY, MA 02181	E K1FB 235-1230
NELS ANDERSON, 92 BISHOP DRIVE, FRAMINGHAM, MA 01701	E K1UR 872-5259
JOHN H. ANTES, 11 OLD FARM CIRCLE, WAYLAND, MA 01778	A KB1EB 358-2571
ALLAN BACON, 73 SCHOOL STREET, HINGHAM, MA 02043	E K1BA 749-4382
RITA A. BAKER, 34 CLIFFORD ROAD, SOUTHBORO, MA 01772	T N1DDI 481-0863
WILLIAM BAKER, 34 CLIFFORD ROAD, SOUTHBORO, MA 01772	481-0863
HARRISON G. BALL, 14 HILLSIDE PLACE, SUDBURY, MA 01776	G N1DEV 443-5620
RICHARD BLAHA, 2 HARWOOD CIRCLE, NATICK, MA 01760	N K1LLQQ 655-1850
DWIGHT BLAHA, 2 HARWOOD CIRCLE, NATICK, MA 01760	N K1LLQP 655-1850
PETER M. BRADLEY, 200 EAST MAIN STREET, WESTBORO, MA 01581	E N1ADX 366-2511
DAN BREVIK, 20 QUEENS WAY #11, FRAMINGHAM, MA 01701	N K1MKKA 877-0235
WARREN BREWSTER, 1 KEANE TERRACE, NATICK, MA 01760	N K1KHS 653-1487
THOMAS M. BROWNING, 32 BEAUFORT AVENUE, NEEDHAM, MA 02192	G W1ELQ 444-3638
HARRY BURTMAN, 58 UNION ST. APT #8, STOUGHTON, MA 02072	G W1LANM 344-1885
THOMAS M. BURTON, 61 WHITTIER ROAD, WELLESLEY, MA 02181	E KX1H 235-6353
BRIAN CARAMANICA, 80 FISKE AVENUE, WALTHAM, MA 02154	N W1ALT 899-8014
ROBERT G. CHISHOLM, 38 GLEN STREET, NATICK, MA 01760	N K1KHT 655-6158
WING S. CHOY, 197 CHISWICK ROAD, BRIGHTON, MA 02135	K1LBHZ 254-4675
MORTON D. COHAN, 16 ORIOLE ROAD, MEDFIELD, MA 02052	A K1IU 359-7979
ROY CROSSMAN, 9 LEIGHTON STREET, NATICK, MA 01760	653-2893
BETTY CROSSMAN, 9 LEIGHTON STREET, NATICK, MA 01760	653-2893
ROBERT C. CURRIE, 18 SCHOOL LANE, WATERTOWN, MA 02172	K1DHR 924-7305
DAVID CURRY, 1 BANCROFT ROAD, WELLESLEY, MA 02181	E K1TK 237-2450
HENRY J. MC DADE, 194 WINSLOW ROAD, WABAN, MA 02168	A W1LMU 527-4269
VALENTINE J. DESCAMPS, 20 SHAW ROAD, WELLESLEY, MA 02181	N K1HEM
DENNIS T. MC DONALD, P.O. BOX 232, ROADTOWN, TORTOLA, BRITISH VIRGIN ISLANDS	N W1EBW
CHARLES MC DONALD, 48 HALE STREET, NEWTON, MA 02164	T W1BUM 332-6091
WILLIAM DOWNING, 68 WASHINGTON STREET, NATICK, MA 01760	G W1PQY 655-3040
BOB DRAPEAU, 39 STEVEN ROAD, BELLINGHAM, MA 02019	E K1K 883-1132
ROBERT FELTMATE, 43 NORFOLK STREET, WALPOLE, MA 02081	N W1ZJE
EDWARD F. GALLAGHER, 87 BEAUFORT AVENUE, NEEDHAM, MA 02192	A W1FCZ 449-1718
GEORGE J. GOLDIN, 14 LLEWELLYN ROAD, WEST NEWTON, MA 02165	N K1LLQN 224-6110
DAVID J. GOLDMAN, 26 PRISCILLA CIRCLE, WELLESLEY, MA 02181	G W1YSW 235-6259
ALBERT GRAF, 391 WORCESTER ROAD, WELLESLEY, MA 02181	A W1OQP 235-1538
NATHAN A. HALLENSTEIN, 5 BLUEBIRD ROAD, WELLESLEY, MA 02181	E W1JMA 235-8572
WILLIAM HANLON, 49 VINE STREET, WRENTHAM, MA 02093	A N1ADY 384-8056
LAURA HANLON, 49 VINE STREET, WRENTHAM, MA 02093	N K1EAQ 384-8056
SALLY HANLON, 49 VINE STREET, WRENTHAM, MA 02093	384-8056
JIM HATHERLEY, 46 HOBSON STREET, BRIGHTON, MA 02135	A W1TBY 254-6042
MARC HEBERT, 11 REDFIELD CIRCLE, DERRY, NH 03038	A W1EDF 434-8871
LARRY HEINE, 449 WORCESTER STREET, WELLESLEY, MA 02181	N W1FCW
MADLINE HEINE, 449 WORCESTER STREET, WELLESLEY, MA 02181	N W1FCX
LOUIE HOLMES, 22 MADISON AVENUE, NEWTON, MA 02160	527-7149
HELEN HOLMES, 22 MADISON AVENUE, NEWTON, MA 02160	527-7149
GEORGE L. JOUBERT, 37 WILLIAM STREET, WATERTOWN, MA 02172	T K1JIP 924-4050
MICHAEL J. KARP, 239 WESTON ROAD, WELLESLEY, MA 02181	N K1LLQK 237-7447
KEVIN KELLY, 7 LAWNWOOD PLACE, CHARLESTOWN, MA 02129	E W1YHV 242-0341
DAVID L. KENT, 184 BROWN STREET, WALTHAM, MA 02154	A N2AWG 647-9334
THOMAS KINAHAN, JR., 22 VILLAGE BROOK LANE, NATICK, MA 01760	G N1CPE 653-0641
GEORGE KNIGHT, 3202 IMPERIAL PALM DRIVE, LARGO, FL 33541	N KB4ELJ
DAVID S. MC LELLAN, 77 CHESTNUT STREET, WESTON, MA 02193	G N1DFP 894-31

WALTER E. LENK, 22 PRISCILLA CIRCLE, WELLESLEY, MA 02181
 THEODORE LEVIN, 5133-C LAKEFRONT BLVD.,
 DELRAY BEACH, FLA 33445
 CARLISLE N. LEVINE, 1921 COMMONWEALTH AVE.,
 AUBURNDALE, MA 02166
 KENNETH W. MC NAIR, 105 BLAKE STREET, NEEDHAM, MA 02192
 PAUL MONROE, JR, 2269 COMMONWEALTH AVE., AUBURNDALE, MA 02166
 SCOTT NACEY, 6 VILLAGE WAY, APT. 14 , NATICK, MA 01760
 JOHN J. O'BRIEN, 100 WEST STREET, SOUTH WEYMOUTH, MA 02188
 JAMES O'CONNOR, 84 PRINCE STREET, NEEDHAM, MA 02192
 HANK OSTROWSKI, 1 ELIZABETH CIRCLE, NEEDHAM, MA 02192
 RICHARD PARET, P.O. BOX 171, GREEN HARBOR, MA 02041
 AMERICO PROCOPIO, 17 PEACEDALE CIRCLE, NEEDHAM, MA 02192
 DANIEL A. QUINTILIANI, 10 ROCKLAND STREET, NEWTON, MA 02158
 THOMAS RILEY, 50 HALE STREET, NEWTON, MA 02164
 VERN ROBERTSON, 42 FISHER STREET, MEDWAY, MA 02053
 RICHARD RUGGIERO, 11 AVON STREET, NATICK, MA 01760
 SKID SCHERMERHORN, 11 CHESTNUT STREET, WELLESLEY, MA 02181
 JOHN SCHIDE, 81 RUTLAND STREET, WATERTOWN, MA 02172
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 DAVID SMITH, 35 KINGSWOOD ROAD, AUBURNDALE, MA 02166
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 ERIK J. THORESEN, 28 LOOKOUT AVENUE, NATICK, MA 01760
 JOHN TURELL, 31 BROOKFIELD ROAD, WELLESLEY, MA 02181
 RALPH H. VACCA, 45 THORNTON ROAD, WALTHAM, MA 02154
 GEORGES VEDIE, 85 BLAKE STREET, NEEDHAM, MA 02192
 INGRID VEDIE, 85 BLAKE STREET, NEEDHAM, MA 02192
 RICHARD WEISSEL, 39 MAC ARTHUR ROAD, NATICK, MA 01760
 GARY WEISSEL, 39 MAC ARTHUR ROAD, NATICK, MA 01760
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